



# National Weather Service

## Storm Data and Unusual Weather Phenomena



August 2004

| Location   | Date | Time<br>Local/<br>Standard  | Path<br>Length<br>(Miles) | Path<br>Width<br>(Yards) | Number of<br>Persons<br>Killed | Number of<br>Persons<br>Injured | Estimated<br>Damage<br>Property | Estimated<br>Damage<br>Crops | Character of Storm       |
|--|------|---|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------------|
| <b><u>MINNESOTA, Central and South Central</u></b> |      |   |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Nicollet County</b>                             |      |   |                           |                          |                                |                                 |                                 |                              |                          |
| North Mankato                                      | 01   | 0314CST   |                           |                          | 0                              | 0                               |                                 |                              | Hail(0.75)               |
| <b>Freeborn County</b>                             |      |   |                           |                          |                                |                                 |                                 |                              |                          |
| Albert Lea   | 01   | 0440CST   |                           |                          | 0                              | 0                               |                                 |                              | Thunderstorm Wind (EG52) |
|  |      | Power lines were blown down.  |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Waseca County</b>                               |      |   |                           |                          |                                |                                 |                                 |                              |                          |
| New Richland                                       | 01   | 0530CST<br>0645CST  |                           |                          | 0                              | 0                               |                                 |                              | Flash Flood              |
|  |      | Widespread field and lowland flooding was reported around New Richland. A small creek overflowed into a ballpark in town.   |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Faribault County</b>                            |      |   |                           |                          |                                |                                 |                                 |                              |                          |
| Wells  | 01   | 0810CST<br>1000CST  |                           |                          | 0                              | 0                               |                                 |                              | Flash Flood              |
|  |      | Roads and low lying areas in and outside of Wells were under water.   |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Scott County</b>                                |      |   |                           |                          |                                |                                 |                                 |                              |                          |
| Shakopee   | 01   | 0934CST   |                           |                          | 0                              | 0                               |                                 |                              | Hail(1.00)               |
|  |      | Quarter sized hail fell at an amusement park.   |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Dakota County</b>                               |      |   |                           |                          |                                |                                 |                                 |                              |                          |
| Burnsville   | 01   | 0951CST   |                           |                          | 0                              | 0                               |                                 |                              | Hail(0.75)               |
| <b>Dakota County</b>                               |      |   |                           |                          |                                |                                 |                                 |                              |                          |
| Apple Vly  | 01   | 1000CST   |                           |                          | 0                              | 0                               |                                 |                              | Hail(0.75)               |
|  |      | The time was estimated.   |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Martin County</b>                               |      |   |                           |                          |                                |                                 |                                 |                              |                          |
| Sherburn   | 03   | 1230CST<br>1430CST  |                           |                          | 0                              | 0                               |                                 |                              | Heavy Rain               |
|  |      | Streets and basements were flooded by an estimated 3 to 4 inches of rain.   |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Martin County</b>                               |      |   |                           |                          |                                |                                 |                                 |                              |                          |
| 2 W Sherburn                                       | 03   | 1230CST   |                           |                          | 0                              | 0                               |                                 |                              | Thunderstorm Wind (EG52) |
|  |      | A wind gust of 60 MPH was reported by law enforcement. A wind gust of 55 MPH was measured by a spotter in town where tree branches were downed.                   |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Martin County</b>                               |      |   |                           |                          |                                |                                 |                                 |                              |                          |
| Dunnell  | 03   | 1240CST   |                           |                          | 0                              | 0                               |                                 |                              | Thunderstorm Wind (EG52) |
|  |      | A wind gust of 60 MPH was estimated by emergency management. Six trees were downed around town. Crop damage was reported in the vicinity. The time was estimated. |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Martin County</b>                               |      |   |                           |                          |                                |                                 |                                 |                              |                          |
| Ceylon   | 03   | 1312CST   |                           |                          | 0                              | 0                               |                                 |                              | Thunderstorm Wind (EG52) |
|  |      | A wind gust of 60 MPH was reported by law enforcement. Several branches were downed. Crop damage was reported in the vicinity.                                    |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Faribault County</b>                            |      |   |                           |                          |                                |                                 |                                 |                              |                          |
| Kiester  | 03   | 1345CST   |                           |                          | 0                              | 0                               |                                 |                              | Thunderstorm Wind (EG52) |
|  |      | A tree was downed. The time was estimated.  |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Faribault County</b>                            |      |   |                           |                          |                                |                                 |                                 |                              |                          |
| 3 NE Wells   | 03   | 1345CST   |                           |                          | 0                              | 0                               |                                 |                              | Hail(0.75)               |
|  |      | A cornfield was laid over along Highway 22 at 140th St. The time was estimated.   |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Faribault County</b>                            |      |   |                           |                          |                                |                                 |                                 |                              |                          |
| Bricelyn   | 08   | 1420CST   |                           |                          | 0                              | 0                               |                                 |                              | Hail(0.75)               |
| <b>Sherburne County</b>                            |      |   |                           |                          |                                |                                 |                                 |                              |                          |
| 3 E Zimmerman                                      | 08   | 1635CST<br>1636CST  | 0.1                       | 30                       | 0                              | 0                               |                                 |                              | Tornado (F0)             |
|  |      | A weak tornado briefly touched down north of Highway 4 between 269th and 277th avenues west of Blue Lake. No damage was reported.                                 |                           |                          |                                |                                 |                                 |                              |                          |



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|----------|------|----------------------------|---------------------------|--------------------------|--|--|---------------------------------------|--------------------|
|----------|------|----------------------------|---------------------------|--------------------------|--|--|---------------------------------------|--------------------|

### MINNESOTA, Central and South Central

#### Isanti County

5 SE Isanti      08      1702CST      0      0      Hail(0.75)

#### Chisago County

4 N Stacy      08      1735CST      0      0      Hail(0.75)

#### Kanabec County

8 NW Warman      08      1830CST      0      0      Hail(0.75)

#### Kanabec County

8 NW Warman      08      1830CST      0      0      Thunderstorm Wind (EG50)  
A tree was downed.

MNZ041>045-047-  
049>050-052>056-064      Douglas - Todd - Morrison - Mille Lacs - Kanabec - Stevens - Stearns - Benton - Isanti - Chisago - Lac Qui Parle - Swift - Chippewa - Yellow Medicine

21      0200CST      0      0      Frost/Freeze  
0700CST

An unseasonably cool high pressure system moved across Minnesota during the morning of the 21st. As a result clear skies and calm winds allowed temperatures to cool into the lower to middle 30s between 3 and 8 AM. Areas of frost caused damage to the top leaves of soybean crops in several counties across west central and central Minnesota. Low lying areas sustained the heaviest damage. One state agricultural agency estimated soybean yield losses between 5 and 15 percent. Another agency stated that little if any damage was done to the overall soybean yields.

#### Martin County

5 S Welcome to  
1 N Welcome      23      1650CST      0      0      Hail(1.50)  
1700CST

Silver dollar sized hail was reported south of Welcome. Acres of corn and beans were shredded near Highway 263 in a 3 to 4 mile wide area.

#### Martin County

Welcome to  
1 N Welcome      23      1700CST      0      0      Thunderstorm Wind (EG55)

Two 1-foot-diameter trees were toppled onto a garage. Corn was flattened by high wind just north of town.

#### Martin County

5 W Fairmont      23      1705CST      0      0      Hail(1.00)

#### Redwood County

Lucan      23      1800CST      0      0      Hail(0.88)

#### Redwood County

Lucan      23      1800CST      0      0      Thunderstorm Wind (EG52)

A barbeque grill was blown 35 feet across gravel and crashed into the side of a garage.

#### Yellow Medicine County

Countywide      23      2100CST      0      0      Flash Flood  
24      0200CST

Up to 7 inches of rain fell between Canby and Spring Creek between 7 PM and midnight. Highway 59 and Highway 67 were closed in Clarkfield by flooding. Canby hospital was also flooded.

#### Kandiyohi County

4 SW Pennock to  
2 SW Pennock      24      1812CST      0      0      Hail(1.75)  
1815CST

Golf ball sized hail shredded over 1000 acres of soybean and corn crops in St. Johns Township southwest of Pennock. Two homes in the area suffered broken windows and damage to shingles and siding.

#### Yellow Medicine County

Hanley Falls      25      1415CST      0      0      Thunderstorm Wind (MG51)

A wind gust of 59 MPH was recorded by an automated wind sensor.



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|---|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------------|
| <b><u>MINNESOTA, Central and South Central</u></b>  |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Yellow Medicine County</b>   |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| 7 SW Canby  | 25   | 1450CST                    |                           |                          | 0                              | 0                               |                                 |                              | Thunderstorm Wind (EG52) |
| Trees were downed and a wagon was tossed into a pasture on a farm in Fortier Township   |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Renville County</b>  |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| 1 NW Sacred Heart   | 25   | 1530CST                    |                           |                          | 0                              | 0                               |                                 |                              | Hail(0.75)               |
| <b>McLeod County</b>  |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| Winsted   | 25   | 1605CST                    |                           |                          | 0                              | 0                               |                                 |                              | Hail(0.75)               |
| <b>McLeod County</b>  |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| Hutchinson  | 25   | 1614CST                    |                           |                          | 0                              | 0                               |                                 |                              | Hail(0.75)               |
| <b>Goodhue County</b>   |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| 2 W Welch to<br>3 W Welch   | 25   | 1734CST                    |                           |                          | 0                              | 0                               |                                 |                              | Hail(1.00)               |
| <b>Wright County</b>  |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| 2 W Waverly to<br>3 W Waverly   | 25   | 1740CST                    |                           |                          | 0                              | 0                               |                                 |                              | Hail(0.75)               |
| <b>Wright County</b>  |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| 2 W Waverly to<br>3 W Waverly   | 25   | 1740CST                    |                           |                          | 0                              | 0                               |                                 |                              | Thunderstorm Wind (EG52) |
| Branches were downed.   |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Todd County</b>  |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| 3 S Clarissa  | 29   | 1747CST                    | 0.1                       | 30                       | 0                              | 0                               |                                 |                              | Tornado (F0)             |
| An off-duty police officer witnessed a brief touchdown of a tornado near the intersection of county routes 11 and 14. No damage was reported.   |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Todd County</b>  |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| Browerville to<br>10 E Browerville  | 29   | 1800CST<br>1830CST         |                           |                          | 0                              | 0                               |                                 |                              | Hail(1.00)               |
| The hail swath was one mile wide and went from Browerville eastward into Morrison County.   |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Todd County</b>  |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| 3 SSE Browerville   | 29   | 1800CST                    | 0.1                       | 30                       | 0                              | 0                               |                                 |                              | Tornado (F0)             |
| An off-duty emergency manager witnessed a brief touchdown of a tornado 3 miles south of Browerville, 1/2 mile east of Highway 71. No damage was reported.   |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Morrison County</b>  |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| 6 SW Randall to<br>4 SW Randall   | 29   | 1830CST<br>1840CST         |                           |                          | 0                              | 0                               |                                 |                              | Hail(0.75)               |
| The hail swath that began in Browerville in Todd County continued eastward into Morrison County. It was located as far east as 4 miles southwest of Randall, but may have continued beyond this location. |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| <b><u>WISCONSIN, West</u></b>   |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Polk County</b>  |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| St Croix Falls  | 02   | 0630CST                    |                           |                          | 0                              | 0                               |                                 |                              | Thunderstorm Wind (EG52) |
| Trees were downed.  |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Polk County</b>  |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| Amery   | 02   | 0652CST                    |                           |                          | 0                              | 0                               |                                 |                              | Thunderstorm Wind (EG52) |
| Power lines were blown down onto County Road F west of town. Trees were downed in town.   |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Pierce County</b>  |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| 1 E Spring Valley   | 08   | 1615CST                    |                           |                          | 0                              | 0                               |                                 |                              | Hail(0.88)               |
| <b>Dunn County</b>  |      |                            |                           |                          |                                |                                 |                                 |                              |                          |
| 3 NE Wheeler  | 08   | 1637CST                    |                           |                          | 0                              | 0                               |                                 |                              | Funnel Cloud             |
| A funnel cloud was spotted by a sheriff's deputy northeast of Wheeler   |      |                            |                           |                          |                                |                                 |                                 |                              |                          |



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|--|---|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------------|
| <b><u>WISCONSIN, West</u></b>  |   |                            |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Chippewa County</b><br>1 NE Eagleton  | 08                                      | 1640CST                    |                           |                          | 0                              | 0                               |                                 |                              | Hail(0.75)               |
| <b>Dunn County</b><br>Menomonie  | 08                                      | 1640CST<br>1645CST         |                           |                          | 0                              | 0                               |                                 |                              | Thunderstorm Wind (EG52) |
| Trees and power lines were downed. A garage was damaged by a fallen tree on Tainter Street. A dock and boat were also damaged. |   |                            |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Dunn County</b><br>Wheeler  | 08                                      | 1640CST                    |                           |                          | 0                              | 0                               |                                 |                              | Hail(1.00)               |
| <b>Dunn County</b><br>Wheeler  | 08                                      | 1640CST                    |                           |                          | 0                              | 0                               |                                 |                              | Thunderstorm Wind (EG50) |
| A tree was downed.   |   |                            |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Barron County</b><br>Cumberland   | 08                                      | 1745CST                    |                           |                          | 0                              | 0                               |                                 |                              | Hail(0.75)               |
| <b>Barron County</b><br>1 E Cumberland   | 08                                      | 1754CST                    |                           |                          | 0                              | 0                               |                                 |                              | Hail(0.75)               |
| Crops were damaged by hail near 8th Street in Cumberland Township.   |   |                            |                           |                          |                                |                                 |                                 |                              |                          |
| <b>Barron County</b><br>7 W Rice Lake  | 08                                      | 1810CST                    |                           |                          | 0                              | 0                               |                                 |                              | Hail(0.75)               |
| <b>Polk County</b><br>Amery  | 08                                      | 1840CST                    |                           |                          | 0                              | 0                               |                                 |                              | Hail(0.75)               |
| <b>WIZ014&gt;016-023</b>   | <b>Polk - Barron - Rusk - St. Croix</b> |                            |                           |                          |                                |                                 |                                 |                              |                          |
|  | 21                                      | 0200CST<br>0700CST         |                           |                          | 0                              | 0                               |                                 |                              | Frost/Freeze             |

An unseasonably cool high pressure system moved across western Wisconsin during the morning of the 21st. As a result clear skies and calm winds allowed temperatures to cool into the lower to middle 30s between 3 and 8 AM. Areas of frost caused damage to the top leaves of soybean crops in St. Croix, Polk, Barron, and Rusk counties. Low lying areas were hardest hit. Crop yield losses related to the frost damage were unknown.